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We claim:

- 1. A genetic testing method for systemic lupus erythematosus (SLE) in a human subject, comprising:
 - a) collecting a tissue sample from a human subject;
- b) amplifying nucleic acids from said tissue sample to obtain amplification products, said nucleic acids comprising a genomic sequence of human chromosome 1 between microsatellite markers D1S2860 and D1S213; and
- c) detecting in the amplification products the presence or absence of a twelve-fold CA dinucleotide repeat sequence consisting of (SEQ. ID. NO.:6), wherein said CA dinucleotide repeat sequence is located in the genomic sequence upstream from a *PARP* transcription start site, corresponding to nucleotide positions 846 through 869 of (SEQ. ID. NO.:5), and wherein the presence of said CA dinucleotide repeat sequence is diagnostic of SLE in a subject having SLE symptoms or indicates a genetic predisposition to develop SLE in a subject not presenting SLE symptoms.

2. The method of Claim 1, further comprising:

detecting in the amplification products the presence or absence of an eighteen-fold CA dinucleotide repeat sequence consisting of (SEQ. ID. NO.:7), wherein said eighteen-fold CA dinucleotide repeat sequence is located in the genomic sequence upstream from a *PARP* transcription start site, between nucleotide positions 845 and 869 of (SEQ. ID. NO.:5), and wherein the absence of said CA dinucleotide repeat sequence is diagnostic of SLE in a subject having SLE symptoms or indicates a genetic predisposition to develop SLE in a subject not presenting SLE symptoms.

- 3. The method of Claim 1, wherein the tissue sample is a blood sample.
- 4. The method of Claim 1, wherein an oligonucleotide primer is used in amplifying said nucleic acids.

- 5. The method of Claim 4, wherein said primer has a nucleotide sequence GAT TCC CCA TCT CTC TTT CTT T (SEQ. ID. NO. 1) or a fragment thereof at least 18 nucleotides long, or AAA TTG TGG TAA TGA CTG CA (SEQ. ID. NO. 2) or a fragment thereof at least 18 nucleotides long.
- 6. The method of Claim 4, wherein an oligonucleotide primer comprising nucleotide sequence GAT TCC CCA TCT CTC TTT CTT T (SEQ. ID. NO. 1) or a fragment thereof at least 18 nucleotides long, is used in amplifying said nucleic acids.
- 7. The method of Claim 4, wherein an oligonucleotide primer comprising nucleotide sequence AAA TTG TGG TAA TGA CTG CA (SEQ. ID. NO. 2) or a fragment thereof at least 18 nucleotides long, is used in amplifying said nucleic acids.
- 8. The method of Claim 4, wherein said oligonucleotide primer is labeled with a fluorescent dye.
- 9. The method of Claim 8, wherein said dye is SYBR Green I, YO-PRO-1, thiazole orange, Hex, FAM or TET.
- 10. A genetic testing kit for detecting in a human subject a genetic susceptibility to SLE, said genetic testing kit comprising:

an oligonucleotide primer set comprising at least one forward primer corresponding to a *PARP*-specific nucleotide sequence of (SEQ. ID. NO.:5), about 15 to about 30 nucleotides in length, and having a a *PARP*-specific sequence of (SEQ. ID. NO.:5) entirely 5' to nucleotide position 846 of (SEQ. ID. NO.:5); and said primer set comprising at least one reverse primer, about 15 to about 30 nucleotides long, and being complementary to a *PARP*-specific sequence of (SEQ. ID. NO.:5) entirely 3' to nucleotide position 869 of (SEQ. ID. NO.:5), such that a detectable *PARP*-specific amplification product can be produced in a PCR reaction mixture when genomic DNA containing a *PARP* gene is present; and

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instructions for using the primer set for detecting in a human subject a genetic susceptibility to SLE.

11. The genetic testing kit of Claim 10, comprising:

an oligonucleotide primer set comprising at least one forward primer comprising nucleotide sequence GAT TCC CCA TCT CTC TTT CTT T (SEQ. ID. NO.1) or a fragment thereof at least 18 nucleotides long, or at least one reverse primer comprising AAA TTG TGG TAA TGA CTG CA (SEQ. ID. NO.2) or a fragment thereof at least 18 nucleotides long.

- 12. A genetic testing method for systemic lupus erythematosus (SLE) in a human subject, comprising:
 - a) collecting a tissue sample from a human subject;
- b) amplifying nucleic acids from said tissue sample to obtain amplification products, said nucleic acids comprising a genomic sequence of human chromosome 1 between microsatellite markers D1S2860 and D1S213; and
- c) detecting in the amplification products the presence or absence of an eighteen-fold CA dinucleotide repeat sequence consisting of (SEQ. ID. NO.:7), wherein said eighteen-fold CA dinucleotide repeat sequence is located in the genomic sequence upstream from a *PARP* transcription start site, between nucleotide positions 845 and 869 of (SEQ. ID. NO.:5), and wherein the absence of said CA dinucleotide repeat sequence is diagnostic of SLE in a subject having SLE symptoms or indicates a genetic predisposition to develop SLE in a subject not presenting SLE symptoms.
 - 13. The method of Claim 12, wherein the tissue sample is a blood sample.
- 14. The method of Claim 12, wherein an oligonucleotide primer is used in amplifying said nucleic acids.
 - 15. The method of Claim 14, wherein said primer has a nucleotide sequence GAT

TCC CCA TCT CTC TTT CTT T (SEQ. ID. NO. 1) or a fragment thereof at least 18 nucleotides long, or AAA TTG TGG TAA TGA CTG CA (SEQ. ID. NO. 2) or a fragment thereof at least 18 nucleotides long.

- 16. The method of Claim 14, wherein an oligonucleotide primer comprising nucleotide sequence GAT TCC CCA TCT CTC TTT CTT T (SEQ. ID. NO. 1) or a fragment thereof at least 18 nucleotides long, is used in amplifying said nucleic acids.
- 17. The method of Claim 14, wherein an oligonucleotide primer comprising nucleotide sequence AAA TTG TGG TAA TGA CTG CA (SEQ. ID. NO. 2) or a fragment thereof at least 18 nucleotides long, is used in amplifying said nucleic acids.
- 18. The method of Claim 14, wherein said oligonucleotide primer is labeled with a fluorescent dye.
- 19. The method of Claim 18, wherein said dye is SYBR Green I, YO-PRO-1, thiazole orange, Hex, FAM or TET.